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PUMP SYSTEM AND METHODS

ABSTRACT OF THE DISCLOSURE

A pumping system comprises a pump barrel that is adapted to be placed into a well casing. A plunger is reciprocatably positioned within the pump barrel and has an open top end, a bottom end, and a traveling valve at the bottom end. A connector is coupled to the plunger below the top end. A rod is coupled to the connector and is translatable to reciprocate the plunger within the pump barrel using an upstroke and a downstroke. Further, the top end of the plunger is adapted to direct particulate into the plunger and away from the pump barrel upon each upstroke.

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